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Term: (((vob same mpeg\$2) and (audio same
attribute\$3)) and quantiz\$6) and
(sampling adj5 (frequenc\$3 or rate or
value\$2))

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JPAB	((vob same mpeg\$2) and (audio same attribute\$3)) and quantiz\$6) and (sampling adj5 (frequenc\$3 or rate or value\$2))	0	<u>L12</u>
USPT	((vob same mpeg\$2) and (audio same attribute\$3)) and quantiz\$6) and (sampling adj5 (frequenc\$3 or rate or value\$2))	9	<u>L11</u>
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USPT	(vob same mpeg\$2) same (attribute\$3)	1	<u>L7</u>
USPT	5140437.dwku.	1	<u>L6</u>
USPT	5400077.dwku.	1	<u>L5</u>
USPT	(vob same mpeg\$2) same (audio same attribute\$3)	1	<u>L4</u>
USPT	(vob same mpeg\$2) same audio	19	<u>L3</u>
USPT	vob same mpeg\$2	29	<u>L2</u>
USPT	vob	133	<u>L1</u>

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Entry 1 of 11

File: USPT

Jan 18, 2000

US-PAT-NO: 6016295

DOCUMENT-IDENTIFIER: US 6016295 A

TITLE: Audio system which not only enables the application of the surround sytem standard to special playback uses but also easily maintains compatibility with a surround system
DATE-ISSUED: January 18, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Endoh; Kenjiro	Tokyo	N/A	N/A	JPX
Todd; Craig Campbell	San Fransico	CA	N/A	N/A

US-CL-CURRENT: 369/49; 369/48, 369/58, 369/59

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KNOW	Image
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☒ 2. Document ID: US 6014495 A

Entry 2 of 11

File: USPT

Jan 11, 2000

US-PAT-NO: 6014495
DOCUMENT-IDENTIFIER: US 6014495 A

TITLE: Information record medium, apparatus for recording the
same and apparatus for reproducing the same
DATE-ISSUED: January 11, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Moriyama; Yoshiaki	Tsurugashima	N/A	N/A	JPX
Takahashi; Tokihiro	Tokorozawa	N/A	N/A	JPX
Ishii; Hidehiro	Tokorozawa	N/A	N/A	JPX
Kurashina; Hiroyuki	Tokorozawa	N/A	N/A	JPX
Sawabe; Takao	Tokyo-to	N/A	N/A	JPX
Yoshio; Junichi	Tokorozawa	N/A	N/A	JPX

US-CL-CURRENT: 386/96; 360/20, 369/124.08, 369/124.09, 369/48,
386/98

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Image
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☒ 3. Document ID: US 5999698 A

Entry 3 of 11

File: USPT

Dec 7, 1999

US-PAT-NO: 5999698

DOCUMENT-IDENTIFIER: US 5999698 A

TITLE: Multiangle block reproduction system
DATE-ISSUED: December 7, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nakai; Masatoshi	Kawasaki	N/A	N/A	JPX
Hagio; Takeshi	Yokohama	N/A	N/A	JPX

US-CL-CURRENT: 386/125; 386/126

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Image
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☒ 4. Document ID: US 5963704 A

Entry 4 of 11

File: USPT

Oct 5, 1999

US-PAT-NO: 5963704
DOCUMENT-IDENTIFIER: US 5963704 A

TITLE: Recording medium, apparatus and method for recording
data on the recording medium, apparatus and method for
reproducing data from the recording medium
DATE-ISSUED: October 5, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mimura; Hideki	Yokohama	N/A	N/A	JPX
Kurano; Tomoaki	Yokohama	N/A	N/A	JPX
Kikuchi; Shinichi	Yokohama	N/A	N/A	JPX
Taira; Kazuhiko	Yokohama	N/A	N/A	JPX

US-CL-CURRENT: 386/95; 386/126

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Image
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☒ 5. Document ID: US 5949955 A

Entry 5 of 11 File: USPT Sep 7, 1999

US-PAT-NO: 5949955
DOCUMENT-IDENTIFIER: US 5949955 A

TITLE: Recording medium apparatus and method of recording and
reproducing data with management information
DATE-ISSUED: September 7, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nakai; Masatoshi	Kawasaki	N/A	N/A	JPX

US-CL-CURRENT: 386/106; 386/126

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Image
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☐ 6. Document ID: US 5930450 A

Entry 6 of 11 File: USPT Jul 27, 1999

US-PAT-NO: 5930450
DOCUMENT-IDENTIFIER: US 5930450 A

TITLE: Recording medium, apparatus and method of recording data
on the same, and apparatus and method of reproducing data from
the recording medium
DATE-ISSUED: July 27, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fujita; Kazuya	Kawasaki	N/A	N/A	JPX

US-CL-CURRENT: 386/95; 386/104

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☒ 7. Document ID: US 5902115 A

Entry 7 of 11

File: USPT

May 11, 1999

US-PAT-NO: 5902115

DOCUMENT-IDENTIFIER: US 5902115 A

TITLE: Recording medium on which attribute information on the playback data is recorded together with the playback data and a system for appropriately reproducing the playback data using the attribute information

DATE-ISSUED: May 11, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Katayama; Yoshitaka	Yokohama	N/A	N/A	JPX

US-CL-CURRENT: 434/307A; 360/135, 386/106, 386/97, 434/307R,
434/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☒ 8. Document ID: US 5896358 A

Entry 8 of 11

File: USPT

Apr 20, 1999

US-PAT-NO: 5896358

DOCUMENT-IDENTIFIER: US 5896358 A

TITLE: Audio system which not only enables the application of the surround system standard to special playback uses but also easily maintains compatibility with a surround system

DATE-ISSUED: April 20, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Endoh; Kenjiro	Tokyo	N/A	N/A	JPX
Todd; Craig Campbell	San Francisco	CA	N/A	N/A

US-CL-CURRENT: 369/89; 369/275.3, 369/48, 369/49

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 9. Document ID: US 5870523 A

Entry 9 of 11

File: USPT

Feb 9, 1999

US-PAT-NO: 5870523

DOCUMENT-IDENTIFIER: US 5870523 A

TITLE: Recording medium on which a data containing navigation data is recorded, a method and apparatus for reproducing a data according to navigation data, a method and apparatus for recording a data containing navigation data on a recording
DATE-ISSUED: February 9, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kikuchi; Shinichi	Yokohama	N/A	N/A	JPX
Arafune; Takeo	Yokohama	N/A	N/A	JPX
Kitamura; Tetsuya	Komae	N/A	N/A	JPX
Mimura; Hideki	Yokohama	N/A	N/A	JPX
Taira; Kazuhiko	Yokohama	N/A	N/A	JPX
Tamada; Yuzo	Yokohama	N/A	N/A	JPX

US-CL-CURRENT: 386/95; 386/111, 386/125, 386/98

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Image
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☒ 10. Document ID: US 5805537 A

Entry 10 of 11

File: USPT

Sep 8, 1998

US-PAT-NO: 5805537

DOCUMENT-IDENTIFIER: US 5805537 A

TITLE: Information record medium, apparatus for recording the same and apparatus for reproducing the same
DATE-ISSUED: September 8, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yamamoto; Kaoru	Tsurugashima	N/A	N/A	JPX
Takahashi; Tokihiro	Tokorozawa	N/A	N/A	JPX
Ishii; Hidehiro	Tokorozawa	N/A	N/A	JPX
Nakamura; Hiroshi	Tokorozawa	N/A	N/A	JPX
Noguchi; Tadashi	Tokorozawa	N/A	N/A	JPX
Sawabe; Takao	Tokyo-to	N/A	N/A	JPX
Yoshio; Junichi	Tokorozawa	N/A	N/A	JPX

US-CL-CURRENT: 369/32; 369/275, 369/4, 369/49, 369/84

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Image
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MPEGAE.USPT.	1
MPEGAV.USPT.	1
MPEGB.USPT.	1
MPEGH.USPT.	1
MPEGI.USPT.	10
MPEGII.USPT.	7
(((VOB SAME MPEG\$2) AND (AUDIO SAME ATTRIBUTE\$3)) AND QUANTIZ\$6).USPT.	11

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Entry 11 of 11

File: USPT

Apr 28, 1998

US-PAT-NO: 5745643

DOCUMENT-IDENTIFIER: US 5745643 A

TITLE: System for and method of reproducing playback data
appropriately by the use of attribute information on the
playback data

DATE-ISSUED: April 28, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mishina; Masamitsu	Sagamihara	N/A	N/A	JPX

US-CL-CURRENT: 386/106; 386/109

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Image
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VOBS.USPT.	53
MPEG\$2	0
MPEG.USPT.	4576
MPEGAE.USPT.	1
MPEGAV.USPT.	1
MPEGB.USPT.	1
MPEGH.USPT.	1
MPEGI.USPT.	10
MPEGII.USPT.	7
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Document Number 1

Entry 1 of 11

File: USPT

Jan 18, 2000

US-PAT-NO: 6016295

DOCUMENT-IDENTIFIER: US 6016295 A

TITLE: Audio system which not only enables the application of the surround sytem standard to special playback uses but also easily maintains compatibility with a surround system

DATE-ISSUED: January 18, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Endoh; Kenjiro	Tokyo	N/A	N/A	JPX
Todd; Craig Campbell	San Fransico	CA	N/A	N/A

ASSIGNEE INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Kabushiki Kaisha Toshiba	Kawasaki	N/A	N/A	JPX	03

APPL-NO: 9/ 247618

DATE FILED: February 10, 1999

PARENT-CASE:

This is a of application Ser. No. 08/910,255, filed Aug. 13, 1997, U.S. Pat. No. 5,896,358 which, in turn, was a file wrapper continuation of application Ser. No. 08/688,762 filed Jul. 31, 1996 abandoned.

FOREIGN-APPL-PRIORITY-DATA:

FOREIGN-PRIORITY:

FOREIGN-PRIORITY-APPL-NO: JP 7-197797

FOREIGN-PRIORITY-APPL-DATE: August 2, 1995

INT-CL: [6] G11B 7/00

US-CL-ISSUED: 369/49; 369/48, 369/58, 369/59

US-CL-CURRENT: 369/49; 369/48, 369/58, 369/59

FIELD-OF-SEARCH: 369/49, 369/47, 369/48, 369/50, 369/54, 369/58, 369/59, 369/60, 369/83, 369/84, 360/15, 360/13, 360/14.1, 360/48, 360/51, 84/609, 84/625, 84/634

REF-CITED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>4583132</u>	April 1986	Nakano	N/A
<u>4598324</u>	July 1986	Efron	N/A
<u>4779252</u>	October 1988	Custers	N/A
<u>4876719</u>	October 1989	Nakagami	N/A
<u>5177798</u>	January 1993	Ohsawa	N/A
<u>5289451</u>	February 1994	Ashinuma	N/A
<u>5400433</u>	March 1995	Davis	N/A
<u>5420839</u>	May 1995	Tateishi	N/A
<u>5428184</u>	June 1995	Park	N/A
<u>5465240</u>	November 1995	Mankovitz	N/A
<u>5519681</u>	May 1996	Maeda	N/A
<u>5543925</u>	August 1996	Timmermans	N/A
<u>5546368</u>	August 1996	Lee	N/A
<u>5561649</u>	October 1996	Lee	N/A
<u>5602922</u>	February 1997	Lee	N/A
<u>5630006</u>	May 1997	Hirayama	N/A
<u>5652824</u>	July 1997	Hirayama	N/A
<u>5675695</u>	October 1997	Hirayama	N/A
<u>5703997</u>	December 1997	Kitamura	N/A
<u>5715356</u>	February 1998	Hirayama	N/A
<u>5721720</u>	February 1998	Kikuchi	N/A
<u>5729650</u>	March 1998	Hirayama	N/A
<u>5732185</u>	March 1998	Hirayama	N/A
<u>5742731</u>	April 1998	Hirayama	N/A
<u>5751892</u>	May 1998	Hirayama	N/A
<u>5758007</u>	May 1998	Kitamura	N/A
<u>5778136</u>	July 1998	Hirayama	N/A
<u>5778142</u>	July 1998	Taira	N/A
<u>5784519</u>	July 1998	Hirayama	N/A
<u>5793872</u>	August 1998	Hirayama	N/A
<u>5815633</u>	September 1998	Hirayama	N/A
<u>5819003</u>	October 1998	Hirayama	N/A
<u>5832175</u>	November 1998	Hirayama	N/A
<u>5845046</u>	December 1998	Hirayama	N/A
<u>5848216</u>	February 1998	Kaneshige	N/A
<u>5870523</u>	February 1999	Kikuchi	N/A

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY
498617	August 1992	EP
0 626 689 A2	November 1994	EP
677842	October 1995	EP
93923665	August 1996	EP
7130102	May 1995	JP
7176175	July 1995	JP
WO 88/08190	October 1988	WO
WO 91/19407	December 1991	WO

OTHER PUBLICATIONS

Patent Abstracts of Japan, Publication No. Hei 8-123488, Date of Publication of Application--May 17, 1996.
ITU-R Recommendations BS.775-1, Multichannel Stereophonic Sound System With and Without Accompanying Picture, 1993; 1994 BS Series Volume; pp. 257-266.
Patent Abstracts of Japan, Publication No. 5-234257, Date of Publication of Application--Sep. 10, 1993.
Patent Abstracts of Japan, Publication No. 07221717 A, Date of Publication of Application--Aug. 18, 1995.
Patent Abstracts of Japan, Publication No. 6-44686, Date of Publication of Application--Feb. 18, 1994.
Patent Abstracts of Japan, Publication No. 08065169 A, Date of Publication of Application--Aug. 3, 1996.
Patent Abstracts of Japan, Publication No. 08077711 A, Date of Publication of Application--Mar. 22, 1996.
"Digital Audio and Ancillary Data Services for an Advanced Television Service" Document T3/186, U.S. Advanced Television Systems Committee, Technology Group on Distribution, Feb. 3, 1992, pp. 1-12.

ART-UNIT: 273

PRIMARY-EXAMINER: Edun; Muhammad

ATTY-AGENT-FIRM: Pillsbury Madison & Sutro, LLP

ABSTRACT:

When an audio stream signal is transmitted, the bit stream information for determining the surround mode and special-use mode, including karaoke use, is sensed from the signal at a mode sensor. After the surround mode has been sensed, the audio data is converted by a decoder into a front left, front center, and front right main audio signals and a back left and back right surround audio signals in the surround mode, which are converted into analog signals and outputted to the corresponding speakers. When the special-use mode has been sensed, by using the central main audio signal of the front left, front center, and front right main audio signals and back left and back right surround audio signals converted at the decoder, a normally used first-type accompanying sound selectively made unused, for example, guide melody, is generated. In addition, by using the

back left and back right surround audio signals, a normally unused second-type accompanying sound selectively used, for example, vocals, is generated. The first-and second-type accompanying sounds, together with the front left and front right main audio signals, are reproduced selectively. Consequently, a system that transmits surround sound using a plurality of channels can maintain compatibility with a surround system easily, when the plurality of channels are applied to special use, such as karaoke, not being restricted to surround use.

75 Claims, 78 Drawing figures

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☐ 1. Document ID: US 5140437 A

Entry 1 of 1

File: USPT

Aug 18, 1992

US-PAT-NO: 5140437

DOCUMENT-IDENTIFIER: US 5140437 A

TITLE: Recording/reproducing compressed data on a rotatable record medium in which at least one intraframe code signal and at least (n-1) interframe code signals are recorded in each track

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Image
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Entry 1 of 1

File: USPT

Apr 28, 1998

US-PAT-NO: 5745643

DOCUMENT-IDENTIFIER: US 5745643 A

TITLE: System for and method of reproducing playback data
appropriately by the use of attribute information on the
playback data

DATE-ISSUED: April 28, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mishina; Masamitsu	Sagamihara	N/A	N/A	JPX

US-CL-CURRENT: 386/106; 386/109

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	RWC	Image
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MPEGAV.USPT.	1
MPEGB.USPT.	1
MPEGH.USPT.	1
MPEGL.USPT.	10
MPEGH.USPT.	7
((VOB SAME MPEG\$2) SAME (AUDIO SAME ATTRIBUTE\$3)).USPT.	1

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Document Number 1

Entry 1 of 1

File: USPT

Apr 28, 1998



DOCUMENT-IDENTIFIER: US 5745643 A

TITLE: System for and method of reproducing playback data appropriately by the use of attribute information on the playback data

DEPR:

The video attribute, audio stream attribute, and sub-picture stream attribute written in FIG. 22 will be described in detail. In the video attribute (VTSM.sub.-- V.sub.-- ATR) of the video object set (VTSM.sub.-- VOBS) 95 for VTSM and the video attribute (VTS.sub.-- V.sub.-- ATR) of the video object set (VTST.sub.-- VOBS) 96 for the video title set title (VTSTT), the same attribute information as the video attribute (VMGM.sub.-- V.sub.-- ATR) of the video object (VMGN.sub.-- VOBS) for the video manager menu already explained with reference to FIGS. 8, 9, 10A, and 10B is written. Specifically, in each of the video attributes (VTSM.sub.-- V.sub.-- ATR) and (VTS.sub.-- V.sub.-- ATR), as shown in FIG. 8, bit number b8 to bit number b15 are allocated to the compression mode, frame rate, display aspect ratio, and display mode, which are the video attributes of the video object set 76 for the video manager menu (VMGM), and bit number b0 to bit number b7 are left empty for reservation for later use. When "00" is written in bit numbers b15, b14, this means the menu video data has been compressed in the video compression mode on the basis of the MPEG-1 standard; and when "01" is written in bit numbers b15, b14, this means the menu video data has been compressed in the video compression mode on the basis of the MPEG-2 standard. The other numbers are reserved for later use. When "00" is written in bit numbers b13, b12, this means that the menu video data has a frame rate of 29.27/s at which 29.27 frames are reproduced every second. Specifically, when "00" is written in bit numbers b13, b12, this means that the menu video data is TV-system video data according to the NTSC scheme and has a frame rate at which a single frame is drawn at a horizontal frequency of 60 Hz using 525 scanning lines. When "01" is written in bit numbers b13, b12, this means that the menu video data has a frame rate of 25/s at which 25 frames are reproduced every second. Specifically, this means that the menu video

second. Specifically, this means that the menu video data is TV-system video data according to the PAL scheme and has a frame rate at which a single frame is drawn at a frequency of 50 Hz using 625 scanning lines. The other numerals in bit numbers b13, b15 are reserved for later use.

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